

# Method of Automatically Routing Nets According to Current Density Rules

## Abstract

A technique will automatically route interconnect of an integrated circuit while taking into consideration current density rules. In an implementation, the technique uses a shape-based approach where a grid is not used. Based on data input including current density and a frequency of each net, the technique will determine the current requirements for each net. In an implementation, the technique forms a Steiner tree for a net, and routes using the Steiner tree. The technique widens nets having greater current requirements; adjacent wiring may be pushed aside to create sufficient space for wider nets.